

## Abstract

A light source is provided for an optical encoder. The optical encoder has an optical detector with a plurality of light receiving surfaces and an encoder wheel intermittently blocking a light from the light source. The light source  
5 comprises at least one light-emitting diode, a package casing; and a collimating unit with lenses corresponding to the light receiving surfaces. The collimating unit is one-piece formed with package casing or assembled to the package casing. The lenses are plane-convex lenses or double-convex lenses to overcome proximal interference.